

Date of issue: Nov. 13th 2020

Swab protocol for Food Allergen ELISA Kit II (Cat. M2111 to M2121)

【Environmental monitoring】

1. Swab

Thoroughly wipe across (zigzagging) the specified surface area of 10 cm × 10 cm with a cotton swab moistened with purified water 1st pass in diagonal, and a 2nd pass in diagonal perpendicular to the first pass.

Put the swab in a disposable polypropylene tube and add 4 mL of **Sample Extraxtion Solution***. Close the tube and vortex for 30 seconds.

Note: the volume of Sample Extraction Solution can be adjusted from 2 - 20 mL depending on a target limit of detectiion.

e.g. 4 mL of Sample Extraction Solution

The LoD can be calculated from the lowest level of standard as follows:

$$0.78 \text{ ng/mL} \times 20 \text{ (dilution factor by Diluent I)} \times 4 \text{ (dilution factor by Sample Extraction Solution)} / 1000 \\ = 0.06 \text{ } \mu\text{g/swab}$$

2. Swab suspended solution (swab kit with a buffer)

Thoroughly wipe across (zigzagging) the specified surface area of 10 cm × 10 cm with a moistened cotton swab 1st pass in diagonal, and a 2nd pass in diagonal perpendicular to the first pass. Put the swab in the test kit and suspend. 1.0 mL of the swab suspended solution in a disposable polypropylene tube and add 19 mL of **Sample Extraction Solution**.

Close the tube and vortex for 30 seconds.

3. Rinse water

1.0 mL of the rinse water in a disposable polypropylene tube and add 19 mL of Sample Extraction Solution. Close the tube and vortex for 30 seconds.

Extraction of proteins from the test sample can be performed by two different methods depending on customer's convenience.

Please proceed to the Short Time Extraction or Overnight Extraction Method written in the kit insert.